

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**Address: COMMISSIONER OF PATENTS AND TRADEMARKS
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/173,828 10/16/98 VAZQUEZ

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QMO2/0410

EXAMINER

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KOCZO JR, M

ART UNIT

PAPER NUMBER

3748

AIR MAIL

DATE MAILED:

04/10/00

*3***Please find below and/or attached an Office communication concerning this application or proceeding.****Commissioner of Patents and Trademarks**

Office Action Summary	Application No. 09/173,828	Applicant(s) Vazquez
	Examiner Michael Koczo, Jr.	Group Art Unit 3748



Responsive to communication(s) filed on _____.

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire THREE month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

Claim(s) 1-7 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

Claim(s) _____ is/are allowed.

Claim(s) 1-7 is/are rejected.

Claim(s) _____ is/are objected to.

Claims _____ are subject to restriction or election requirement.

Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The drawing(s) filed on _____ is/are objected to by the Examiner.

The proposed drawing correction, filed on _____ is approved disapproved.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All Some* None of the CERTIFIED copies of the priority documents have been

received.

received in Application No. (Series Code/Serial Number) _____.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

Notice of References Cited, PTO-892

Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

Interview Summary, PTO-413

Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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The title of the invention is objected to as being too lengthy. An abbreviated titled is required.

The specification is objected to as not complying with 37 CFR 1.52(b) which requires that "the pages of the specification including claims and abstract must be numbered consecutively, starting with 1, the numbers being centrally located above or preferably, below, the text."

The arrangement and content of the specification should be as follows:

Content of Specification

- (a) Title of the Invention: See 37 CFR 1.72(a). The title of the invention should be placed at the top of the first page of the specification. It should be brief but technically accurate and descriptive, preferably from two to seven words.
- (b) Cross-References to Related Applications: See 37 CFR 1.78 and MPEP § 201.11.
- © Statement Regarding Federally Sponsored Research and Development: See MPEP § 310.
- (d) Reference to a "Microfiche Appendix": See 37 CFR 1.96© and MPEP § 608.05. The total number of microfiche and the total number frames should be specified.
- (e) Background of the Invention: The specification should set forth the Background of the Invention in two parts:
 - (1) Field of the Invention: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
 - (2) Description of the Related Art: A description of the related art known to the applicant and including, if applicable, references to specific related art

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and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."

- (f) **Brief Summary of the Invention:** A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.
- (g) **Brief Description of the Several Views of the Drawing(s):** A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (h) **Detailed Description of the Invention:** A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. This item may also be titled "Best Mode for Carrying Out the Invention." Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (i) **Claim or Claims:** See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet. (37 CFR 1.52(b)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps.
- (j) **Abstract of the Disclosure:** A brief narrative of the disclosure as a whole in a single paragraph of 250 words or less on a separate sheet following the claims.

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(k) Drawings: See 37 CFR 1.81, 1.83-1.85, and MPEP § 608.02.

A substitute specification will be accepted if applicant furnishes a statement that the substitute specification includes no new matters. Such statement must be a verified statement if made by a person not registered to practice before the Office (37 CFR 1.125, MPEP 608.01(q)).

The specification is objected to because “RP-7V” does not have a recognized meaning.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 to 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 9, “bearings and or bushings” is redundant because bearings and bushings are functional equivalents.

In claim 2, “having a smooth interior surface, having said valve attached” and “said exhaust port having means for attachment to said toroidal cylinder” are redundant recitations because they are already recited in claim 1.

In claim 4, “combustor and/or combustion chamber” is redundant because these terms are synonymous. It is also not understood what is meant by “method for igniting”. Did applicant intend to recite --means for igniting--?

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In claims 5, 6 and 7, it is not understood what is meant by "means for an internal combustion engine", "means for Fluid Metering devices" and "means for Power Assist devices", respectively. 35 USC 112 (sixth paragraph) permits reciting structure in a "means plus function" form. However, these claims do not recite any function of the means. Therefore the scope of these claims cannot be ascertained because it is not clear what structure is readable as the "means".

Thorough revision of the claims is required in order to render them definite in form according to the statute.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 to 7, as can be understood, are rejected under 35 U.S.C. 102(b) as being anticipated by either of Ford or Gerschel.

The patents to Stewart, Williams et al., Kurose, Koser et al and Bratten are cited to further show the state of the art. The patent to Bratten shows the proper form for the specification, claims and drawings.

It would be of great assistance to the Office if all incoming papers pertaining to a filed application carried the following items:

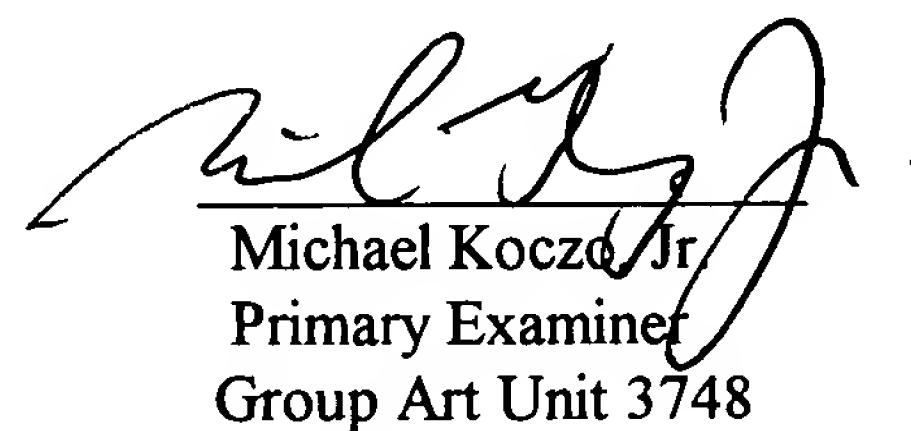
1. Serial number (checked for accuracy).

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2. Group art unit number (copied from filing receipt or most recent Office Action).
3. Filing date.
4. Name of the examiner who prepared the most recent Office action.
5. Title of invention.

Any inquiry relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is 703-308-0861.

Any inquiry relating to patent applications in general should be directed to the Patent Assistance Center at 1-800-786-9199.



Michael Koczo, Jr.
Primary Examiner
Group Art Unit 3748

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April 5, 2000
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